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| Notice of Allowability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10/796,980                                                                                                                                                                                                                                                                           | PARK ET AL.                                                                                                                                                                                                                                   |                              |
| Notice of Allowability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Examiner                                                                                                                                                                                                                                                                             | Art Unit                                                                                                                                                                                                                                      |                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Tu-Tu Ho                                                                                                                                                                                                                                                                             | 2818                                                                                                                                                                                                                                          |                              |
| The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | is (OR REMAINS) CLOSED in this ap<br>) or other appropriate communication<br>(IGHTS). This application is subject to<br>3 and MPEP 1308.                                                                                                                                             | plication. If not include will be mailed in due                                                                                                                                                                                               | ded<br>e course. <b>THIS</b> |
| 1. A This communication is responsive to Reply filed 11/16/200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>05</u> .                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                               |                              |
| 2. $igotimes$ The allowed claim(s) is/are <u>1-3,5-9 and 11-40</u> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                               |                              |
| 3.  Acknowledgment is made of a claim for foreign priority u a)  All b)  Some* c)  None of the:  1.  Certified copies of the priority documents have 2.  Certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have 1.  Certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have 1.  Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.  A SUBSTITUTE OATH OR DECLARATION must be submined in INFORMAL PATENT APPLICATION (PTO-152) which gives the including changes required by the Notice of Draftsper 1)  hereto or 2)  to Paper No./Mail Date  (b)  including changes required by the attached Examiner Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR reach sheet. Replacement sheet(s) should be labeled as such in the deposit of the proper No. Information in the deposit of the priority documents and the proper No. Information in the deposit of the priority documents and the priority documents and the priority documents and the priority documents and the priority documents have a priority document in the priority documents have a priority document h | e been received. e been received in Application No comments have been received in this for this communication to file a reply MENT of this application.  Initted. Note the attached EXAMINER res reason(s) why the oath or declara st be submitted. son's Patent Drawing Review (PTO | complying with the received and stage application and stage application is deficient.  Solution is deficient.  Solution is deficient.  Solution is deficient.  Solution is deficient.  The solution is deficient.  The solution is deficient. | equirements  NOTICE OF       |
| Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Paper No./Mail Da                                                                                                                                                                                                                                                                    | r (PTO-413),<br>te<br>ment/Comment                                                                                                                                                                                                            | owance                       |

## **DETAILED ACTION**

1. Applicant's Amendment filed 11/16/2005 has been reviewed and placed of record in the file.

## Allowable Subject Matter

2. Claims 1-3, 21, 40, 5-9, 11-14, 22, 15-17, 23, 18-20, and 24-39 (to be renumbered 1-38) are allowable over the prior art of record.

The allowable subject matter was indicated in the Ex Parte Quayle Office Action mailed 09/22/2005 and is recited here in its entirety:

The prior art of record fails to teach or render obvious an organic light emitting device and a method of fabricating thereof having all exclusive limitations as recited in claims 1, 7, 15, 18, 24, and 38, comprising a substrate; a lower electrode on the substrate; an organic thin film layer on the lower electrode; and an upper electrode on the organic thin film layer; the upper electrode either: having a first thin film layer and a second thin film layer, the first thin film and the second thin film having the same conductive material, or: having a conductive electrode material and a first surface and a second surface which second surface being further from the organic thin film layer;; the first thin film having a grain density or grain size different from that of the second thin film; and either: the conductive electrode material having an increasing grain density and decreasing grain size as a function of the distance from the substrate, or: a density of the conductive electrode material at the first surface being less than a density of the conductive electrode material at the second surface.

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Art Unit: 2818

Allowance."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

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Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tu-Tu Ho whose telephone number is (571) 272-1778. The examiner can normally be reached on 6:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DAVID NELMS can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tu-Tu Ho

November 22, 2005